

HEAT TACK APPLICATION FOR USE WITH THE MANUFACTURE OF GENERATOR ROTOR COILS AND OTHER COMPONENTS

Abstract of the Disclosure

5 A heat tack application involves arranging an adhesive between a strand of
conductive material and a strand of insulation material; applying a temperature of about
100-300°C and a pressure of about 5-100 psi for about 5-120 seconds to tack the
adhesive. A stack can thereby be formed, and a plurality of stacks assembled to form a
nascent rotor coil that is subsequently arranged in a rotor slot. An applied temperature of
10 about 100-500°C and a pressure of about 100-1,500 psi can fully cure the adhesive after
the coil is arranged within the rotor slot. Depending on the context of use, the conductive
material may more generally be a first component, and the insulation material may more
generally be a second component.

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